INVENTING THE SUIT AND SAVING THE WORLD: ONE HUMAN’S STORY OF UNPARALLELED GENIUS, INTERMINABLE COURAGE, AND GENERAL AWESOMENESS

by

Anthony Stark

B.S. University of Pirates, 2020

A Thesis submitted in Partial Fulfillment of the Requirements

for the Degree of

Master of Science

in

Engineering

University of Alaska Fairbanks

August 2023

APPROVED:

Bruce Banner, Committee Chair

Thor Odinson, Committee Member

Natasha Romonoff, Committee Member

Jane Van Dyne, Committee Member

Clinton F. Barton, Chair

Department of Mechanical Engineering

Nick Fury, Dean

College of Business and Security Management

Richard Collins, Director

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Abstract to be less than 300 words. Write as a single block without indentation. The abstract is required. An abstract is a concise summary of your thesis. It should summarize your thesis, its results, and their broader relevance. It allows readers determine the relevance of your thesis for their own research. It also communicates your key findings to those who don’t have the time to read your entire thesis.

# Plain Word Summary

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# Acknowledgements

Write as a paragraph, or paragraphs, with indentation. The acknowledgements section is optional. The acknowledgments section is where you recognize and thank everyone (mentor/advisor committee, friends, family, colleagues, communities, organizations, agencies) who helped you with your thesis and contributed to your success. It’s a way to show your appreciation and recognition of them in a public and permanent forum. You can also include a Land Acknowledgement in the acknowledgements. It is also the section where you can formally report any agencies and organizations that provided financial or other material support for your work (e.g., I acknowledge the support of the UAF graduate school for …., I thank Foundation X for ….). I acknowledge the support of the graduate school for a travel grant in Fall 2022. I acknowledge the support of the National Science Foundation under grant 2012345.

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# General Introduction

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# First Paper Title

## 2.1 Abstract

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## 2.2 Introduction

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Figure .: A capybara wearing a suit. Probably has an important meeting to get to.

## 2.3 Methods

## 2.3.1 Study System

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## 2.3.2 Mathematical Model

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## 2.3.3 Statistical Model

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| Parameter | Interpretation | Dimensions |
| **x** | spatial location | [1x2] |
| ui(x,t) | individual territory | [1x1] (i=5) |
| Vhr | vector field defining available space | [1x1] |
| B(**x**) | perceptive range of individual | [1x12] |
| sj(x,t|B(x)) | Spatially averaged effect in perceptive range | [1x1] (j=4) |
| BCi,j | effect of conspecific (from iSSA) | [5x5] |

Table .: Model components and parameters making up advection diffusion model as well as biological interpretation in model’s system.

## 2.4 Results

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## 2.4.1 Steady State Solution

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| TET030 | -0.26 | - | -0.1 | -0.2 | -0.2 |
| TET072 | -0.1 | -0.1 | - | -0.13 | -0.1 |
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Table .: They all seem to be negative. Maybe that’s significant? Maybe it’s not. Why are a bunch of them 0.1?

## 2.4.2 Non-territorial Individual Analysis

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## 2.5 Discussion

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## 2.6 References

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# Second Paper Title

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**A beaver wearing a suit and tie

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Figure .: A capybara wearing a suit. Probably has an important meeting to get to.

## 3.3 Methods

## 3.3.1 Study System

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## 3.5 Discussion

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# General Conclusions

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, mo- lestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend conse- quat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismodnunc eupurus. Donec bibendumquam in tellus. Nullamcursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

# Supplemental Material

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Figure .: Frog looking real dapper.

# Appendix B: More Supplemental Material

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